

Appl. No. 09/228,710
Reply to Office Action

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for providing power within a telephone server coupled to a computer system via an interface bus, to a maximum number of telephones, and to a telephone trunk, the computer system providing a primary voltage and a secondary voltage, the method including:
 - receiving the primary voltage and the secondary voltage from the computer system;
 - generating ringer power in response to the primary voltage;
 - generating direct inward dialing power in response to the primary voltage, the direct inward dialing power configured to provide a first operational voltage for telephones from the maximum number of telephones, when the telephones receive telephone calls directly from the telephone trunk; and
 - generating a ringing signal in response to the ringer power and to the secondary voltage;wherein a peak voltage of the ringing signal is provided to no more than approximately one half of the maximum number of telephones at a time, and wherein all none of the telephones are on ~~separate circuits~~ a common line.
2. (Previously Presented) The method of claim 1 further comprising:
 - generating an indicator light signal in response to the primary voltage,wherein a peak voltage of the indicator light signal is provided to no more than approximately a half of the maximum number of telephones at a time.
3. (Previously Presented) The method of claim 1 further comprising:
 - wherein the indicator light signal has a duty cycle of approximately 50 percent.
4. (Previously Presented) The method of claim 1 further comprising:
 - generating indicator light voltage in response to the primary voltage;wherein a peak voltage of the indicator light voltage is provided to no more than approximately a quarter of the maximum number of telephones at a time.
5. (Previously Presented) The method of claim 1 wherein the ringing signal has a duty cycle of approximately 33 percent.
6. (Previously Presented) The method of claim 5 wherein a peak voltage of the ringing signal is provided to no more than approximately one third of the maximum number of telephones at a time.

Appl. No. 09/228,710
Reply to Office Action

PATENT

7. (Previously Presented) The method of claim 1 further comprising generating second operational voltage in response to the primary voltage for the telephones from the maximum number of telephones, when the telephones receive telephone calls from other telephones from the maximum number of telephones;

wherein the first operational voltage is approximately twice the second operational voltage.

8. (Original) The method of claim 1 further comprising:
loading driver software for the telephone server on the computer system; and
configuring the telephone server with the driver software, before providing the ringer power.

9. (Currently Amended) A telephone server coupled to a computer system via a computer bus, configured to provide output power and signals to a plurality of telephones, and to a telephone trunk, the computer system providing a primary voltage and a secondary voltage, the telephone server comprising:

a transformer circuit configured to receive the primary voltage and to provide first operational power in response to the primary voltage signal; the first operational power configured to power telephones that receive telephone calls from the telephone trunk; and

ringer circuitry coupled to the transformer circuit configured to receive the ringer power, to receive the second voltage, and to provide a ringing signal in response thereto;

wherein the ringer circuitry is configured to provide a peak voltage of the ringer power to no more than approximately one half a maximum number of telephones that may be coupled to the telephone server at a time, and

wherein all none of the telephones are on ~~separate telephone lines~~ a common line.

10. (Previously Presented) The telephone server of claim 9
wherein the transformer circuit is also configured to provide an indicator light power in response to the primary voltage, and

wherein indicator light circuitry is configured to provide a peak voltage of the indicator light power to no more than approximately one quarter the maximum number of telephones.

11. (Previously Presented) The telephone server of claim 10 wherein the indicator light circuitry is configured to provide an indicator light signal in response to the indicator light power, wherein the indicator light signal is configured to have a duty cycle of less than approximately 25 percent.

Appl. No. 09/228,710
Reply to Office Action

PATENT

12. (Previously Presented) The telephone server of claim 9 further comprising:
wherein the transformer circuit is also configured to provide the indicator light power in response to the primary voltage, and
wherein indicator light circuitry is configured to provide a peak voltage of the indicator light power to no more than approximately one half the maximum number of telephones.
13. (Previously Presented) The telephone server of claim 9 wherein the ringer circuitry is also configured to receive a ring enable signal; and
wherein the ringing signal is configured to have a duty cycle of less than approximately 33 percent.
14. (Previously Presented) The telephone server of claim 13 wherein the ringer circuitry is configured to provide the ringer signal to no more than approximately one third the maximum number of telephones.
15. (Previously Presented) The telephone server of claim 9 wherein the transformer circuit is also configured to provide second operational power in response to the primary voltage, wherein the second operational power provides power to telephones that receive telephone calls from other telephones of the plurality of telephones; and
wherein the first operational power is greater than the second operational power.
16. (Previously Presented) The telephone server of claim 15 wherein the first operational power is approximately twice the second operational power.
17. (Original) The telephone server of claim 9 further comprising:
wherein the transformer circuit is also configured to receive an enabling signal from the computer system; and
wherein the transformer circuit is also configured to provide the first operational power in response to the enabling signal.
18. (Currently Amended) A method for a telecommunications interface for providing drive voltages for a plurality of telephones coupled thereto, the telecommunications interface also coupled to a computer system, the computer system providing a first drive voltage and a second drive voltage to the telecommunications interface, the method including:
receiving an enabling signal for the telecommunications interface from the computer system;

Appl. No. 09/228,710
Reply to Office Action

PATENT

generating a ringing drive voltage within the telecommunications interface in response to the first drive voltage and to the enabling signal, wherein a ringer circuit is configured to provide the ringing drive voltage to a subset of a maximum number of telephones that may be coupled to the telecommunications interface at one time, and wherein ~~all~~ none of the telephones are coupled to ~~separate telephone lines~~ a common line; and

generating a first operational drive voltage for a telephone from the plurality of telephones within the telecommunications interface when a call directed to the telephone is a directly dialed call from the telephone trunk.

19. (Previously Presented) The method of claim 18 further comprising:
providing the first operational drive voltage to the telephone when the call is a directly dialed call.

20. (Previously Presented) The method of claim 18 wherein the first operational drive voltage for the telephone is generated in response to the enabling signal.

21. (Previously Presented) The method of claim 20 wherein the second operational drive voltage for the telephone is generated in response to the enabling signal.

22. (Previously Presented) The method of claim 18 further comprising:
generating an indicator light drive voltage within the telecommunications interface in response to the primary voltage.

23. (Previously Presented) The method of claim 22
wherein a peak voltage of the indicator light drive voltage is provided to no more than approximately one half of the maximum number of telephones at a time.

24. (Previously Presented) The method of claim 23 wherein the peak voltage of the indicator light drive voltage is provided to no more than approximately one quarter of the maximum number of telephones at a time.

25. (Previously Presented) The method of claim 18 wherein a peak voltage of the ringing drive voltage is provided to no more than approximately one half of the maximum number of telephones at a time.

26. (Previously Presented) The method of claim 25 wherein the peak voltage of the ringing drive voltage is provided to no more than approximately one third of the maximum number of telephones at a time.

Appl. No. 09/228,710
Reply to Office Action

PATENT

27. (Previously Presented) The method of claim 26 wherein a ring signal derived from the ringing drive voltage has a duty cycle of less than approximately 33 percent.

28. (Currently Amended) The method of claim 18 further comprising:
generating a second operational drive voltage for the telephone within the telecommunications interface when the call directed to the telephone is an internally dialed call from another telephone of the plurality of telephones; and
providing the second operational drive voltage to the telephone when the call is an internally dialed call [[,]] ;
wherein the first operational drive voltage has a magnitude approximately twice a magnitude of the second operational drive voltage.